LAST ONE!

Customer gets a copy

Return this to the floor

LAST ONE!

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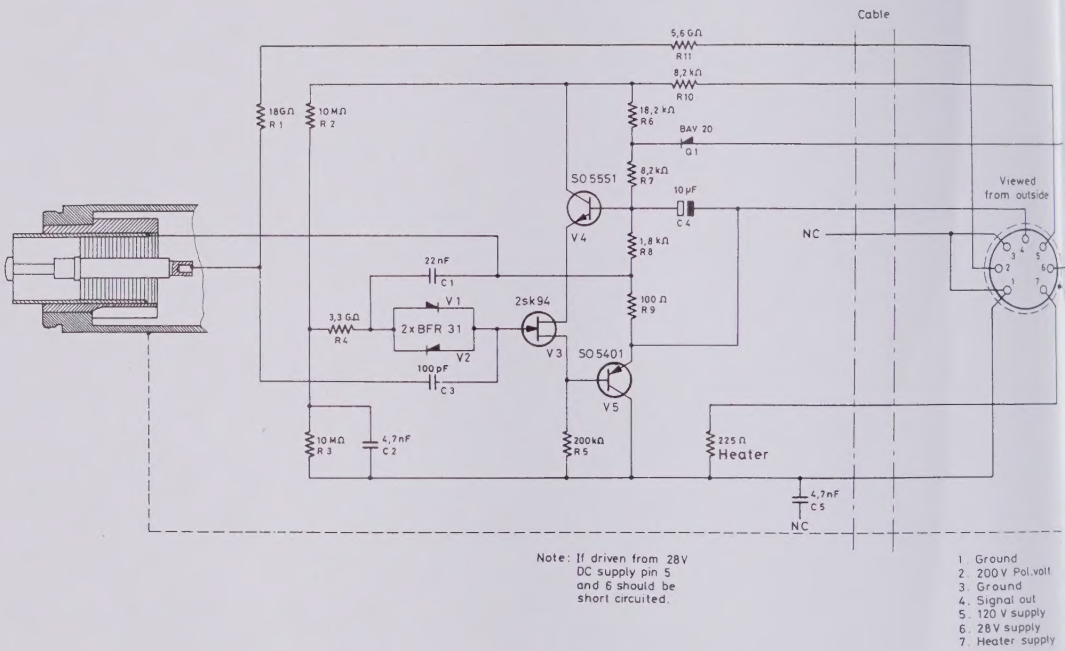
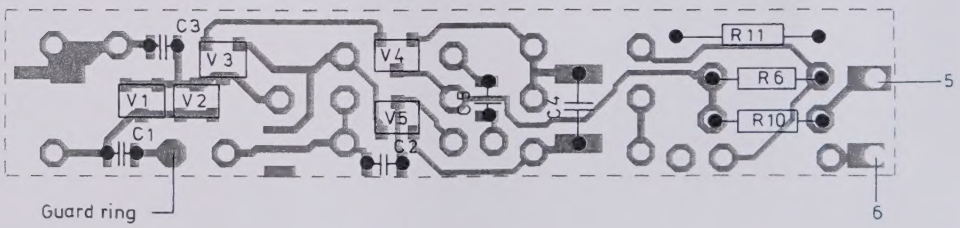
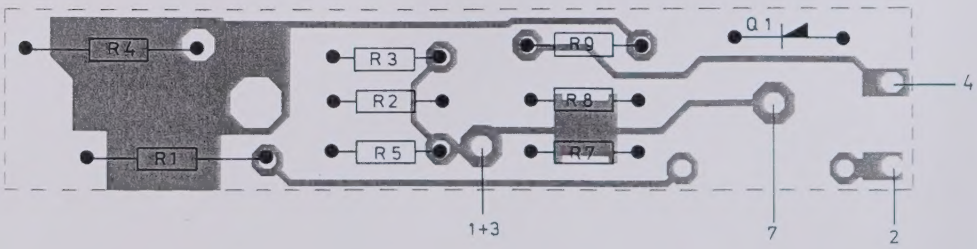

Cable
5,6 GΩ
R11
8,2 kΩ
R10
18 GΩ
R1
10 MΩ
R2
18,2 kΩ
R6
BAV 20
Q1
SO 5551
8,2 kΩ
R7
10 µF
C4
Viewed
from outside
V4
1,8 kΩ
R8
NC
22 nF
C1
V1
2sk94
100 Ω
R9
3,3 GΩ
R4
2x BFR 31
V2
V3
SO 5401
100 pF
C3
V5
10 MΩ
R3
4,7 nF
C2
200kΩ
R5
225 Ω
Heater
4,7nF
C5
NC
Note: If driven from 28V
DC supply pin 5
and 6 should be
short circuited.
1. Ground
2. 200 V Pol.volt
3. Ground
4. Signal out
5. 120 V supply
6. 28 V supply
7. Heater supply


C3
V3
V4
R11
R6
5
V1
V2
V5
R10
C1
C2
Guard ring
6


R4
R3
R9
Q1
4
R2
R8
R1
R5
R7
1+3
7
2

ZE 0486

Checking Procedure

DC Voltage

The following specifications are valid for Type 2639 connected to a B & K Measuring Amplifier, e.g. Type 2610 or Type 2636 with 120 VDC supply.

Guard Ring: approx. 56 ± 3 V

Funktion Check

Place a Condenser Microphone on Type 2639 and check the Sound Pressure Level from a Type 4220 Pistonphone or Type 4230 Calibrator: 124 dB SPL. or 94 dB SPL. respectively.

Amplification

Apply an input signal 1 kHz, 1 V through an input adaptor JJ 2617 (50 pF)
Check output voltage: 1 V $\pm \begin{smallmatrix} 0 \\ 0{,}1 \end{smallmatrix}$ dB

Frequency Response

Vary the input frequency 2 Hz – 200 kHz
Check output voltage at 2 Hz: 1 V $\pm \begin{smallmatrix} 0 \\ 0{,}5 \end{smallmatrix}$ dB
at 200 kHz: 1 V ± 0,5 dB

Distortion

Adjust input signal at 1 kHz for an output voltage of 33 V.
Check by means of an oscilloscope, that the signal is not visibly distorted.

Noise

Shortcircuit the input adaptor, JJ 2617 (50 pF).
Check the noise.
In range 20 Hz–200 kHz: $< 6\ \mu V$
A weighted: $< 1{,}3\ \mu V$

1/2" Preamplifier

Valid from serial no. 1055652

0037-0435

Trouble Shooting

If any faults should occur please check the instrument according to the Checking Procedure.

When a fault has been traced and corrected, the voltage and adjustments influenced by the correction must be rechecked. The complete instrument should then be tested to make sure that all basic functions are operative.

The tolerances given in these notes are intended for use as quide for checking.

Before correcting any apparent deviation make sure that the measuring instrument has tolerances small enough not to affect the measurement.

Modifications

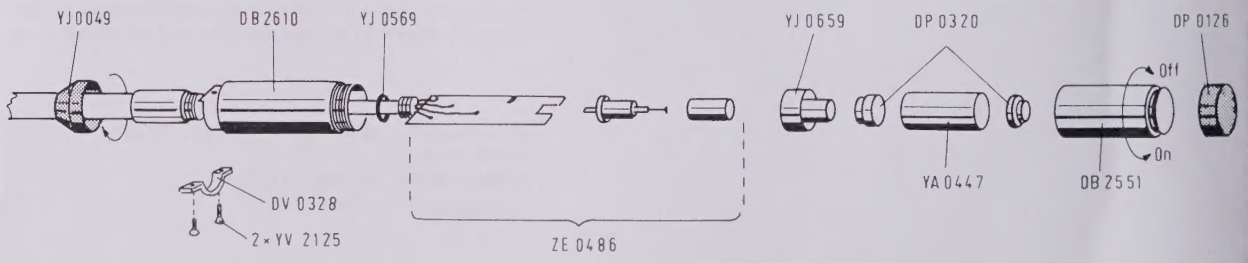
Due to the constant technical progress the instrument will be modified from time to time in order to provide continously improved performance.

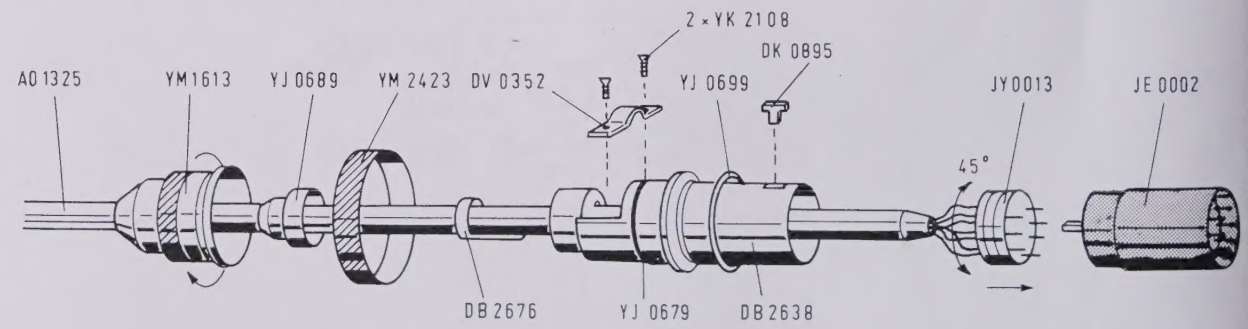
For this reason there may be small differencies between the instrument and the Service Instruction.

However, the local Service Representative is in possession of all information regarding the modifications that have been made.

Spare Parts

Please state type and serial number of the instrument when ordering spare parts.





Disassembly

Microphone End

Unscrew DB 2551 by means of two pliers WA 0327 in the indicated direction, remove YA 0447, DP 0320 and unscrew YJ 0049 and DV 0328. The Amplifier Board ZE 0486 can then be pulled out of the housing DB 2610.
It is recommended to exchange the complete circuit board, rather than attempt to unsolder defective components, in case of malfunction of the amplifier.

Plug End

Unscrew YM 1613 and DV 0352, remove DK 0895, and rotate JY 0013 approx. 45°, so that it can be pulled out of housing DB 2638.